
	Reflex Testing Policy Lab Admin 14 (Formerly Lab Admin 10)	Dept:	Pathology
		Effective Date:	October, 2011
		Revised Date:	April 11, 2017
		Contact:	Laboratory Compliance and QA
Name & Title: Gregory Pomper, MD		Date:	<i>11/14/18</i>
Signature: 			

1) **General Policy Statement:** It is the policy of the Department of Pathology to provide a mechanism to ensure laboratory reflex testing is approved by senior leader WFBMC attending physicians hereafter referred to as the Medical Executive Committee when required (initially, and annually thereafter) and is in accordance with Office of Inspector General, Medicare, Medicaid, and other payor requirements.

- a. **Scope:** This policy applies to all Department of Pathology Clinical and Anatomic Laboratories.
- b. **Responsible Department/Party/Parties:**
 - i. Procedure owner: Department of Pathology
 - ii. Procedure: Laboratory Compliance, QA, Safety and Point of Care Testing
 - iii. Supervision: Laboratory Compliance, QA, Safety and Point of Care Testing, Department of Pathology Section managers
 - iv. Implementation: Department of Pathology Chairman, Department of Pathology Administrative Director and Clinical Pathology CLIA Lab Director and Laboratory Compliance Officer

2) **Definitions:**

- a. **Reflex Testing:** Testing performed when an initial test result is outside the normal range and indicates a second related test(s) is medically appropriate. Generally, the primary test result is enhanced by the follow-up reflex test(s), and the reflex test(s) always adds useful diagnostic, prognostic, and/or therapeutic information.

3) **Procedure:**

- a. Reflex testing must be initially and thereafter annually approved by the Medical Executive Committee on an annual basis.
- b. Reflex testing addresses only reflex tests that require Medical Executive Committee approval (Table 1).

c. Reflex testing does not apply to:

1. confirmatory or adjunctive tests that are universally accepted medical practices, e.g. susceptibilities in microbiology cultures and elucidation of specific antibodies in Transfusion Services
2. tests that are mandatory under state law and performed automatically e.g. confirmation of a positive HIV and certain serological procedures or
3. tests defined in Centers for Medicare/Medicaid Services regulations and/or memoranda, e.g. special stains used in Surgical Pathology/ Cytopathology (Table 2).

d. CLIA Laboratory Director must:

1. Identify all reflex tests
2. Consult with the appropriate Advisory Committee or Clinical Consultants to determine specific criteria for reflex testing
3. Present all reflex testing initially to the Medical Executive Committee and on an annual basis thereafter to obtain approval via documentation in the Medical Executive Committee minutes
4. Maintain a copy of the Medical Executive Committee minutes with documentation of reflex testing approval for seven (7) years
5. Review and ensure applicable revisions are made to the LIS and billing processes.
6. Notify all staff responsible for ordering, testing, charging, or billing laboratory services on the contents of this policy
7. Inform physicians that they have the option to decline reflex testing in situations where non-mandatory reflex testing exists.

e. The testing laboratories will:

1. Perform reflex testing only as defined in this procedure
2. Perform reflex tests when the following conditions are met:

- a. Medical Executive Committee has approved the reflex testing via documentation in the Medical Executive Committee minutes
 - b. The physician orders an “Initial Test” which may prompt reflex testing as defined by the Laboratory Directors
 - c. The “Initial Test” result meets the “Reflex Criteria” for prompting a reflex test which has been approved by the Medical Executive Committee
3. Develop and document reflex testing criteria and reflex tests within individual laboratory sections and laboratory procedures.
 - a. In certain situations it is appropriate for clinical laboratory staff to initiate a reflex test order in response to an initial order placed by a provider. In such instances the laboratory staff are required to use the Reflex Order Test mode when placing the order in the system. The Reflex Order mode was designed specifically for use in the laboratory by laboratory staff and should not but used by any other area.
- 4) **Review/Revision/Implementation:**
 - a. Review Cycle: Policy itself is reviewed biannually, Reflex Test list is reviewed Annually.
 - b. Office of Record: Department of Pathology, Section of Laboratory Compliance, QA, Safety and Point of Care Testing.

5) **Related Policies:** N/A

6) **References, National Professional Organizations, etc.:**
CROSS REFERENCE:

1. Compliance Guidelines for Pathologists; Published by the College of American Pathologists, 1998.

2. Clinical Laboratory Management Association: “Reflex Testing: Do It Right or Not At All”, Vantage Point, 5 (14): 1-2, August 27, 2001.

APPLICABLE STANDARDS:

1. OIG Model Compliance Plan for Clinical Laboratories, Federal Register, 9435-9441, March 1997.

2. The Office of Inspector General's (OIG) Compliance Program Guidance for Clinical Laboratories, August 1998.
 3. Centers for Medicare and Medicaid Services: National Correct Coding Initiative, Version 8, January 1, 2002.
 4. CMS, Medicare Carriers Manual Transmittal 1725: Part III. Medicare Carriers Manual, Section 15021, September 27, 2001.
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- 7) **Attachments:** Table 1 and Table 2

 - 8) **Revision Dates:** November 2016, April 11, 2017, November 6, 2018

TABLE 1.

REFLEX TESTING REQUIRING ATTENDING PHYSICIAN APPROVAL VIA MEDICAL EXECUTIVE COMMITTEE

Reflex Testing for Microbiology

Initial Test Request	CPT Code for initial test	Reflex Criteria	Reflex Test Procedure	CPT Code for Reflex Test
AFB smear	87206	Culture needed for identification	AFB culture	87118
AFB culture	87118	Allows rapid preliminary diagnosis	AFB smear	87206
Culture, Lower Respiratory	87070	Allows evaluation of specimen quality	Gram stain	87205
Culture, Fluids	87070	Allows rapid preliminary diagnosis	Gram stain	No additional charge
Culture, wounds	87070	Allows evaluation of specimen quality	Gram stain	No additional charge
Culture, stool	87046	Screen for toxigenic E coli	Shiga Toxin 1 and 2	87899 (X2)
Fungal culture	87102	Allows rapid diagnosis	Calcofluor white smear	87206
HSV culture or PCR	86694	Positive	HSV Typing to differentiate HSV 1 and 2	87253 (X2)
Viral culture when BAL, Bronch wash or NP swab	87253	Rapid diagnosis of respiratory viruses	Multiplex PCR	83901-91 (X9)
Ova and Parasite	87177	Allows rapid detection of two most common pathogens	Giardia and Cryptosporidium Antigen by EIA	87327 (X2) Requisition allows to select EIA w/o O&P
Influenza PCR	87798	Subtyping of Influenza A positive screen	PCR for subtyping	87798 (X2)
Gram Stain - Urine	87205	Presence of Bacteria or >5 WBC per HPF	Culture, bacterial; Quantitative colony count, urine	87086
GC/Chlamydia Amplification In <u>urine samples</u> from pediatric patients	87150	Positive (needs confirmation by another method)	Molecular testing with different target (Send out test)	
Chlamydia culture In pediatric patients	87110	Positive culture	Confirm result by Molecular testing	87150

Reflex Testing for Serology

Initial Test Request	CPT Code for initial test	Reflex Criteria	Reflex Test Procedure	CPT Code for Reflex Billing
ANA Screen	86038	Positive	ANA Titer	86039
Cryptococcus Antigen	87327	Positive	Cryptococcus Ag Titer	No additional charge
HIV Antibody	86703	Repeat Reactive	Western Blot	86689
Hepatitis A total	83708	Reactive	Hepatitis A IgM	86709
Hepatitis B Surface Ag	87340	Reactive	Neutralization Confirmatory Test	87341
RA Screen	86430	Positive	RA Titer	86431
RMSF Serology	8600	Positive	RMSF Titer	No additional charge
RPR (Syphilis) Screen	86592	Positive	RPR Titer and MHATP confirmatory tests	86431

Reflex Testing for Hematopathology

Initial Test Request	CPT Code for Initial Test	Reflex Criteria	Reflex Test Procedure	CPT Code for Reflex Test
Serum Protein Electrophoresis (SPEP)	86320	Presence of abnormal banding and/or altered immunoglobulin profile, e.g. M-spike	Immunofixation to characterize abnormal bands (IFIX)	86334
Urine Protein Electrophoresis (UPEP)	86325	Presence of abnormal banding and/or altered immunoglobulin profile, e.g. M spike	Immunofixation to characterize abnormal bands (UFIX)	86335
Hemoglobin electrophoresis alkaline gel electrophoresis	83020	Presence of abnormal banding	Hemoglobin electrophoresis acid gel electrophoresis to further characterize abnormal banding	83020
Cryoglobulins	82595, 82784, 82785	Presence of abnormal Band	Immunofixation to characterize abnormal bands (IFIX)	86334
Peripheral blood CD4/CD8 lymphocyte helper/suppressor ratio	86360	Presence of increased % B-lymphocyte population [Adults > 30%; Peds > 50%]	Immunophenotyping to characterize increased B-lymphocyte population	86355 88185 x 3
Peripheral blood CD4/CD8 lymphocyte helper/suppressor ratio	86360	Lymphocyte sum (T-cell + B-cell) < 90% of lymphocyte populations	Immunophenotyping to characterize increased NK-lymphocyte population	86357, 88185
Flow cytometry phenotyping for lymphoma or leukemia	88184, 88185, 88187, 88188, or 88189	Aberrant T-cell phenotype or deletion of T-cell associated antigen	T-cell Receptor V-beta repertoire clonality	not determined at this time

Reflex Testing for Molecular Pathology

Initial diagnostic specimen	Reflex criteria	Reflex test	CPT codes for reflex
Breast Biopsy or Lumpectomy or Mastectomy	NEW diagnosis of invasive ductal carcinoma. Testing not performed on previous specimen.	Estrogen Receptor, Progesterone Receptor, MIB-1, and HER2 expression by immunohistochemistry. Ploidy analysis by flow cytometry.	88342 x 4 and 88182
Breast Biopsy or Lumpectomy or Mastectomy	NEW diagnosis of ductal carcinoma in situ. Testing not performed on previous specimen.	Estrogen Receptor and Progesterone Receptor Expression by immunohistochemistry	88342 x 2
Colon biopsy or resection	Colon cancer newly diagnosed in a patient under the age of 50. Testing not previously performed.	MLH1, MSH2, MSH6, PMS2 expression by immunohistochemistry to determine if further work up for a genetic cancer syndrome is needed.	88342 x 4
Colon Cancer Resection	Resection of a clinical Stage II colon cancer	MLH1, MSH2, MSH6, PMS2 expression to guide treatment by immunohistochemistry	88342 x 4
Lung Fine Needle Aspiration, Biopsy or Resection	NEW diagnosis of pulmonary adenocarcinoma or non-small cell carcinoma which can not be definitively called adenocarcinoma because of limited material	SEND OUT TEST for EGFR mutation analysis	83891, 83892x4; 83894; 83898x12; 83907, 83909x8; 83912
Brain biopsy	NEW diagnosis of oligodendroglioma or high grade glioma	1p/19q deletion	
Non-small cell lung cancer tissue	New diagnosis of non-small cell lung cancer	PDL-1 immunohistochemical testing	88342

Reflex testing for Medical Genetics / Cytogenetics

Initial diagnostic specimen	Reflex criteria	Reflex test	CPT codes for reflex
Any tissue specimen, biopsy, fine needle aspiration	Any new diagnosis of non-squamous non-small cell lung cancer	FISH for Alk Fusion Gene	88271, 88275
Bone marrow/core Unstipulated peripheral blood -on a child (<18 yrs of age	Pathology diagnosis the sample to be B-ALL	FISH tests: t(1;19) - TCF3PBX1 t(9;22) – BCR/ABL t(12;21) – Tel/AML1 11q23 rearranged (MLL) Trisomy 4, 10, 17	88271x11 88275x5
Bone marrow/core Unstipulated peripheral blood	FISH test for BCR/ABL shows a single fusion event with a dual fusion BCR/ABL probe indicating a possible deletion	FISH test: Argininosuccinate synthetase	88271x2 88275

	of ASS. Knowing whether or not ASS is deleted helps with a normal vs abnormal diagnosis and is of primary importance if deleted with the detection of minimal residual disease		
Bone tumors	Pathology attempting to rule out to rule out Ewings sarcoma – specifically the break point involved	FISH test: EWSR1 – break of 22q EWSR1/ERG - t(21;22) FLI1/EWSR1 - t(11;22)	88271x6 88275x3

TABLE 2.

List of Universally Accepted Confirmatory or Adjunctive Tests Which by Professional Practice Standards or Regulations Do Not Require an Attending Physician’s Order / Do Not Require Quality Council Approval:

Laboratory Section:	
Histopathology Laboratory	
Initial Test:	Confirmatory or Adjunctive Tests:
<p>1. 88302 Level II Surgical Pathology Gross And Microscopic Examination</p>	<p>Technical only (902-907) additional slides</p> <p>88311 Decalcification</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88348 Electron microscopy</p>
<p>2. 88304 Level III Surgical Pathology Gross And Microscopic Examination</p>	<p>Technical only (902-907) additional slides</p> <p>88311 Decalcification</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to</p>

	<p>identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p> <p>88348 Electron microscopy</p>
<p>3. 88305 Level IV Surgical Pathology Gross And Microscopic Examination</p>	<p>Technical only (902-907) additional slides</p> <p>88311 Decalcification</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p> <p>88348 Electron microscopy</p> <p>88362 Nerve teasing preparations</p>
<p>4. 88307 Level V Surgical Pathology Gross And Microscopic Examination</p>	<p>Technical only (902-907) additional slides</p> <p>88311 Decalcification</p> <p>88312 Special stains group I for</p>

	<p>microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p> <p>88348 Electron microscopy</p>
<p>5. 88309 Level VI Surgical Pathology Gross And Microscopic Examination</p>	<p>Technical only (902-907) additional slides</p> <p>88311 Decalcification</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p> <p>88348 Electron microscopy</p>

<p>6. 88323 Consultation And Report On Referred Material Requiring Preparation Of Slides</p>	<p>Technical only (902-907) additional slides</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88348 Electron microscopy</p>
<p>7. 88325 Consultation, Comprehensive, With Review of Records And Specimens, With Report On Referred Material</p>	<p>Technical only (902-907) additional slides</p> <p>88311 Decalcification</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special Stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88348 Electron microscopy</p>
<p>8. 88331 Pathology Consultation During Surgery With Frozen Section</p>	<p>88332 Additional tissue block with frozen section</p>

Laboratory Section:	
Cytopathology Laboratory	
Initial Test:	Confirmatory or Adjunctive Tests:
1. CPT 88108- Cytopathology-concentration technique, smears and interpretation (cytospin)	<p>Technical and professional fee additional slides/services</p> <p>88305 Cell Block</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p>
2. CPT 88112- Cytopathology-liquid-based slide prep technique, smears and interpretation	<p>Technical & professional fee additional slides/services</p> <p>88305 Cell Block</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p>

	<p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p>
<p>3. CPT 88104- Cytopathology-fluids, washings or brushings, except cervical or vaginal; smears with interpretations</p>	<p>Technical & professional fee additional slides/services</p> <p>88305 Cell Block</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p>
<p>4. CPT 88107- Cytopathology-fluids, washings or brushings, except cervical or vaginal; smears and filter preparation with interpretation</p>	<p>Technical & professional fee additional slides/services</p> <p>88305 Cell Block</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p>

	<p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p>
<p>5. CPT 88323- Consultation And Report On Referred Material Requiring Preparation Of Slides</p>	<p>Technical & professional fee additional slides/services</p> <p>88305 Cell Block</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p>
<p>6. CPT 88325- Consultation, Comprehensive, With Review of Records And Specimens, With Report On Referred Material</p>	<p>Technical & professional fee additional slides/services</p> <p>88305 Cell Block</p> <p>88312 Special stains group I for microorganisms</p>

	<p>88313 Special Stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p>
<p>7. CPT 88172- Cytopathology, evaluation of fine needle aspirate; immediate cytohistologic study to determine adequacy of specimen</p> <p>8. CPT 88173- Cytopathology, evaluation of fine needle aspirate; interpretation and report</p>	<p>Technical & professional fee additional slides/services</p> <p>88305 Cell Block</p> <p>88312 Special stains group I for microorganisms</p> <p>88313 Special Stains group II all other</p> <p>88318 Determinative histochemistry to identify chemical components</p> <p>88319 Determinative histochemistry to identify enzyme constituents</p> <p>88342 Immunohistochemistry</p> <p>88346 Immunofluorescent study</p> <p>88347 Immunofluorescent study indirect method</p>

9. CPT 88142, P3000 & G0123-Cytopathology, cervical or vaginal (any reporting system), collected in preservative fluid, automated thinlayer preparation	CPT 88141-Cytopathology, cervical or vaginal (any reporting system); requiring interpretation by physician
Laboratory Sections:	
Hematopathology Section:	
Initial Test:	Confirmatory or Adjunctive Tests:
1. Bone Marrow Aspirate Smear Interpretation	88313 PAS stain (special stains group 2) 88319 Myeloperoxidase (determinative histochemistry to identify enzyme components) 88319 Esterase (determinative histochemistry to identify enzyme components)
Laboratory Sections:	
Core Clinical Laboratory; Outpatient Clinical Laboratories; Pediatric Laboratories	
Initial Test:	Confirmatory or Adjunctive Tests:
Complete Blood Count (CBC) Or CBCD/Automated Differential, Any Instrument Flag, ie. a) Poor scatterplot discrimination b) Incomplete computation messages for differential results c) WBC or differential region flags	Blood film review and/ or manual white blood cell (WBC) differential

d) Instrument suspect messages e) Instrument definitive message f) Absolute lymphocyte value > 15 x 10	
Laboratory Section:	
Clinical Microbiology	
Initial Test:	Confirmatory or Adjunctive Tests:
Culture Bacteria Body Fluid, CSF, Sputum/ETA/BAL, Tissue, Ear, Dialysis Fluid, Cystic Respiratory, Other Source Without Anaerobes, Other Source With Anaerobes	87205 Gram stain
Culture Bacteria Tissue	87176 Grind tissue
Culture Bacteria Blood, Body Fluid, CSF, Catheter Tip, Sputum/ETA/BAL, Tissue, Ear, Eye, Dialysis Fluid, Cystic Respiratory, Other Source Without Anaerobes, Other Source With Anaerobes, Stool, Culture Fungus Blood	87077, 87143, 87147 -- Bacterial identification (definitive, GLC, Streptex) based on method(s) used for each appropriate aerobic isolate. 87181, 87184, 87186, 87185 -- Bacterial susceptibility testing (KB, MIC, Etest, or beta-lactamase) for each appropriate isolate based on method used. 87106 or 87107 Yeast or mold identification (definitive) for each appropriate isolate. 87181, 87186. Fungal susceptibility testing (Etest, MIC) for each drug/yeast isolate based on physician request and test method used as appropriate for yeast isolated.

<p>Culture Group A Strep, Culture Group B Strep Screen, Culture Yersinia, Culture GC</p>	<p>87077, 87143, 87147 – Bacterial identification (definitive, GLC, Streptex) based on method(s) used for each appropriate aerobic isolate.</p> <p>87181, 87184, 87186, 87185 – Bacterial susceptibility testing (KB, MIC, Etest, or beta-lactamase) for each appropriate isolate based on method used.</p>
<p>Culture Bacteria Body Fluid, Tissue, Other Source With Anaerobes</p>	<p>87075 Anaerobic Culture</p> <p>87076 Anaerobe identification (definitive) for each anaerobic isolate.</p>
<p>Culture Bacteria Blood</p>	<p>87076 Anaerobe identification (definitive) for each anaerobic isolate.</p>
<p>Culture Bacteria Stool</p>	<p>87046 Culture Campylobacter Charge (routine)</p> <p>87046 Culture E. coli 0157 Charge when requested</p> <p>87046 Culture Vibrio Charge when requested.</p>
<p>Culture Bacteria Urine</p>	<p>87077 or 87088 – Bacterial identification for each aerobic isolate.</p> <p>87181, 87184, 87186, 87185 – Bacterial susceptibility testing (KB, MIC, Etest, or beta-lactamase) for each appropriate isolate based on method used.</p> <p>87106 Yeast identification (definitive) for each appropriate isolate.</p> <p>87181, 87186. Fungal susceptibility testing (Etest, MIC) for each drug/yeast isolate based</p>

	on physician request and test method used as appropriate for yeast isolated.
Culture AFB Respiratory Culture AFB Other Source Culture AFB Blood	87176 Grind/homogenize specimen (tissue only) 87015 Concentration of specimen (respiratory only) 87206 AFB Smear (non-blood sources) 87149 or 87118 AFB identification (by probe or biochemicals) for each isolate 87190 AFB susceptibility each drug (5) for each isolate
Culture Fungus Culture Fungus Blood Culture Fungus, Skin, Hair, Nail	87210 or 87220 - KOH Prep (appropriate source) 87210 India ink and 86403 Cryptococcal antigen (CSF only) 87106 or 87107 Yeast or mold identification (definitive) for each isolate 87181, 87186. Fungal susceptibility testing (Etest, MIC) for each drug/yeast isolate based on physician request and test method used as appropriate for yeast isolated.
Culture Candida Screen	87106 Yeast identification (definitive) for each isolate 87181, 87186. Fungal susceptibility testing (Etest, MIC) for each drug/yeast isolate based on physician request and test method used as appropriate for yeast isolated.

Culture Virus Culture Herpes simplex	87253 Viral identification (definitive) for each virus identified
HIV Antibody 1&2 Combined (By EIA)	Western blot to confirm positive EIA test-86701
ICRV-1 (HIV-1 Antibody Stat for Blood and Body Fluid Exposure) or Labor & Delivery HIV-1 Antibody	HIV-1&2 antibody (EIA) to confirm stat method-86689 Western blot to confirm positive EIA test-86701.
Malaria Smear (Thick And Thin Films) Microfilariae Exam	87015 Concentration of specimen
Parasite Complete Exam	87177 and 88312 Parasite complete exam/conc & Id. and parasite complete exam/trichrome stain 87207 Microsporidia exam when requested
RPR	86593 RPR quantitative to determine actual titer 86781 Treponema pallidum Confirm to confirm reactive RPR results
Treponema pallidum Confirm	86592 RPR 86593 RPR quantitative if RPR reactive for actual titer
CSF VDRL	86593 VDRL quantitative to determine actual titer when VDRL is reactive

Laboratory Section:	
Flow Cytometry	
Initial Test:	Confirmatory or Adjunctive Tests:
Leukemia Immunophenotyping of Bone Marrow, Fine Needle Aspiration, Cerebral Spinal Fluid, Pleural Fluid, Peritoneal Fluid, Tissue, Peripheral Blood	Leukemia Immunophenotyping 88187 2 to 8 antibodies tested 88188 9 to 15 antibodies tested 88189 16 or more antibodies tested
Additional Flow Cytometry tests to identify prognostic markers and / or therapeutic targets will be performed in patients diagnosed with the appropriate leukemia / lymphoma.	
Laboratory Section:	
Immunopathology	
Initial Test:	Confirmatory or Adjunctive Tests:
Immunopathology of Native or transplant Kidney, Heart, or Lung Biopsy	88342 Immunohistochemistry 88346 Immunofluorescent study 88347 Immunofluorescent study indirect method 88348 Electron microscopy

Laboratory Section:	
Transfusion Service	
Initial Test:	Confirmatory or Adjunctive Tests:
1. Type And Screen	86901 ABO discrepancy 86901 ABO Rh recheck 86978 Adsorption procedure 86870 Antibody panel/blood 86885 Antibody screen (IAT) 86886 Antibody titer-blood 86903 Antigen typing 86157 Cold agglutinins titer-blood 86156 Cold screen 86880 Direct antiglobin (DAT) 86860 Eluate blood 86886 HTLA titer 86970 Pretreat RBC-chem, drug 86972 Pretreat RBC-density 86971 Pretreat RBC-enzyme 86975 Pretreat serum-drugs 86977 Pretreat serum-inhibitors 86905 Red cell phenotype-complete

2. Newborn Type And Screen	86901 ABO discrepancy 86901 ABO Rh recheck 86870 Antibody panel/blood 86885 Antibody screen (IAT) 86903 Antigen typing 86860 Eluate blood
3. Red Cell Blood Product Order	86900 Type and screen/ABO type 86901 Type and screen/Rh type 86885 Type and screen/Ab screen 86901 ABO recheck 86920 Crossmatch 86922 Crossmatch-extended 86903 Antigen typing 85013 Hematocrit blood 86945 Irradiation blood product 86931 Deglycerolization handling fee Reconstituted RBC handling fee Red blood cells handling fee 85660 Sickle cell screen 86078 Transfusion reaction
4. Platelet Product Order	86078 Transfusion reaction 86900 Type and screen/ABO type 86901 Type and screen/Rh type

	<p>86901 ABO recheck</p> <p>86985 Volume reduction fee-platelet</p> <p>86945 Irradiation blood product</p> <p>86965 Platelet handling fee-pheresis</p> <p>86965 Platelet handling fee-pooled</p> <p>86965 Platelet HLA best match fee</p> <p>86920 Platelet Crossmatch</p> <p>86022 Platelet antibodies direct</p> <p>86023 Platelet antibodies indirect</p> <p>86022-Platelet antibodies-drug induced</p> <p>86022 Platelet specific antigen-PL A1 typing</p>
5. Plasma Product Order	<p>86900 Type and screen/ABO type</p> <p>86901 ABO recheck</p> <p>86901 Type and screen/Rh type</p> <p>86885 Type and screen/Ab screen</p> <p>86078 Transfusion reaction workup</p> <p>86927 Plasma products handling fee</p>
6. Post-Natal Rh Immunoglobulin	<p>86900 Type and screen/ABO type</p> <p>86901 Type and screen/Rh type</p> <p>86885 Type and screen/Ab screen</p> <p>85461 Fetal screen</p> <p>86901 ABO Rh recheck</p>
7. Pre-Natal Rh Immunoglobulin	<p>86900 Type and screen/ABO type</p>

	86901 Type and screen/Rh type 86885 Type and screen/Ab screen 86901 ABO Rh recheck
8. DAT (Direct Antiglobulin Test)	86900 ABO and Rh type/ABO type 86901 ABO and Rh type/Rh type Antibody screen (IAT) 86156 Cold screen 86880 DAT C3 86880 86860 DAT IGG 86860 Eluate Blood 86870 Antibody panel/blood
9. Antibody Titer	86901 ABO Rh recheck 86870 Antibody panel/blood
10. RBC Phenotype	86901 ABO Rh recheck 86880 Direct antiglobin (DAT)
11. ABO/Rh Type	86901 ABO discrepancy 86901 ABO recheck 86156 Cold screen Direct antiglobin (DAT)